

**ABSTRACT**

**COMPOSITIONS AND METHODS FOR  
MANIPULATING GLIAL PROGENITOR CELLS AND  
TREATING NEUROLOGICAL DEFICITS**

The invention provides compositions and methods for attracting glial and neuronal progenitor cells and their progeny to desired sites within the central nervous system tissue. These compositions and methods can also be used to induce directed differentiation of these cells. By providing various ways to generate new glial and neuronal cells from endogenous progenitor cells, the invention also provides methods for inducing regeneration of tissues and neurological function, and, indeed, generating new phenotypes and capabilities. Thus, the invention features methods and compositions for ameliorating neurological deficits, including inherited disorders, trauma, infections and the like.

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